

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

10/558/55  
I FWP  
3/15/07

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER: 19/558,155

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1        Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2        Invalid Line Length      The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3        Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4        Non-ASCII      The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
- 5        Variable Length      Sequence(s)        contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6        PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)       . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7        Skipped Sequences  
    (OLD RULES)      Sequence(s)        missing. If intentional, please insert the following lines for **each** skipped sequence:  
                          (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                          (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                          (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                          This sequence is intentionally skipped  
  
                          Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8        Skipped Sequences  
    (NEW RULES)      Sequence(s)        missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
                          <210> sequence id number  
                          <400> sequence id number  
                          000
- 9        Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                          Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
                          In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10        Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11        Use of <220>      ~~Sequence(s)        missing the <220> "Feature" and associated numeric identifiers and responses.~~  
                          ~~Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.~~  
                          ~~(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)~~
- 12        PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13        Misuse of n/Xaa      "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

## RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/558,155

TIME: 11:30:32

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

3 <110> APPLICANT: WAKITA, Takaji  
 4 KATO, Takanobu  
 5 DATE, Tomoko  
 7 <120> TITLE OF INVENTION: A NUCLEIC ACID CONSTRUCT CONTAINING A NUCLEIC ACID DERIVED  
 8 FROM THE GENOME OF HEPATITIS C VIRUS (HCV) OF GENOTYPE 2a,  
 9 AND A CELL HAVING SUCH NUCLEIC ACID CONSTRUCT INTRODUCED THEREIN  
 11 <130> FILE REFERENCE: 1254-0299PUS1  
 13 <140> CURRENT APPLICATION NUMBER: US 10/558,155  
 14 <141> CURRENT FILING DATE: 2005-11-23  
 16 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/015038  
 17 <151> PRIOR FILING DATE: 2003-11-25  
 19 <150> PRIOR APPLICATION NUMBER: JP 2003-148242  
 20 <151> PRIOR FILING DATE: 2003-05-26  
 22 <150> PRIOR APPLICATION NUMBER: JP 2003-329115  
 23 <151> PRIOR FILING DATE: 2003-09-19  
 25 <160> NUMBER OF SEQ ID NOS: 41  
 27 <170> SOFTWARE: PatentIn Ver. 2.1  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 8024  
 31 <212> TYPE: RNA  
 32 <213> ORGANISM: Artificial Sequence  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: Description of Artificial Sequence: replicon  
 37 <400> SEQUENCE: 1  
 38 accugccccc aauagggggc acacuccgcc augaaucau cccugugag gaacuaugu 60  
 39 cuucacgcag aaagcgccua gccauggcgu uaguaugagu gucguacagc cuccaggccc 120  
 40 ccccccuccg ggagagccau aguggucugc ggaaccggug aguacaccgg aauggccggg 180  
 41 aagacugggu ccuuucugg auaaaccac ucuaugccc gccauuuggg cgugcccccg 240  
 42 caagacugcu agccgaguag cguuggguug cgaaaggccu ugugguacug ccugauaggg 300  
 43 cgcuugcgag ugccccggga ggucucguag accgugcacc augagcaca auccuaaacc 360  
 44 ucaaagaaaa accaaaagaa acaccaaccg ucgcccuaug auugaacaag auggauugca 420  
 45 cgcagguucu cggcgccguu ggguggagag gcuaucggc uaugacuggg cacaacagac 480  
 46 aaucggcugc ucugaugccg ccguguuccg gcugucagcg caggggcgcc cgguuuuuuu 540  
 47 ugucaagacc gaccuguccg gugcccugaa ugaacugcag gacgaggcag cgcggcuauc 600  
 48 guggcuggcc acgacgggag uuccuugcgc agcugugcuc gacguuguca cugaagcggg 660  
 49 aagggacugg cugcuauugg gcgaagugcc ggggcaggau cccugucau cucaccuugc 720  
 50 uccugccgag aaaguaacca ucauggcuga ugcaaugcgg cggcugcaua cgcuugauc 780  
 51 ggcuaaccug ccuucgacc accaagcgaa acaucgcauc gagcgagcac guacucggau 840  
 52 ggaagccggg cuugucgauc aggaugaucu ggacgaagag caucaggggc ucgcgccagc 900  
 53 cgaacuguuc gccaggcuca aggcgcgcga gcccgcaggc gaggaucucg ucgugaccca 960  
 54 uggcgaugcc ugcuugccga auaucauggu ggaaaauagg cgcuuuucug gauucauca 1020  
 55 cuguggccgg cugggugugg cggaccgcua ucaggacaua gcguuggcua cccgugauau 1080  
 56 ugcugaagag cuuggcggcg aaugggcuga ccgcuuccuc gugcuuuacg guaucgccgc 1140

Does Not Comply  
 Corrected Diskette Needed  
 (Pg. 1, 4)

PLS explain source  
 of genetic material.

Invalid  
 response

PLS see  
 item #11  
 on  
 error  
 Summary  
 Sheet.

## RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/558,155

TIME: 11:30:32

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

```

57 ucccgaauucg cagcgcaucg ccuucuaucg ccuucuuugac gaguucuuuc gaguuuaaac 1200
58 ccucucccuc ccccccccu aacguuacug gccgaagccg cuuggaauaa ggccggugug 1260
59 cguuugucua uauguuauuu uccaccauau ugccgucuuu uggcaaugug agggcccgga 1320
60 aaccuggccc ugucuuucug acgagcauuc cuagggguc uuccccucuc gccaaaggaa 1380
61 ugcaaggucg guugaauguc gugaaggaag caguuccuc ggaagcuuc ugaagacaaa 1440
62 caacgucugu agcgacccu ugcaggcagc ggaaccccc accuggcgac aggugccuc 1500
63 gcggccaaaa gccacgugua uaagauacac cugcaaaggc ggcacaacc cagugccacg 1560
64 uugugaguug gauaguugug gaaagaguca aauggcucuc cucaagcgua uucaacaagg 1620
65 ggcugaagga ugcccagaag guaccccau guaugggau ugaucugggg ccucggugca 1680
66 caugcuuuac auguguuuag ucgagguua aaaaacguc agggccccc aaccacgggg 1740
67 acgugguuuu ccuugaaaa acacgaugau accauggcuc ccaucacugc uuaugccag 1800
68 caaacacgag gccuccugg cgccauagug gugaguauga cggggcguga caggacagaa 1860
69 caggccgggg aaguccaaau ccuguccaca gucucucagu ccuuccucgg aacaaccauc 1920
70 ucggggguuu uguggacugu uuaccacgga gcuggcaaca agacucuagc cggcuuacgg 1980
71 gguccgguca cgcagaugua cucgagugcu gagggggacu ugguaggcug gccagcccc 2040
72 ccugggacca agucuuugga gccgugcaag uguggagccg ucgaccuaua ucuggucacg 2100
73 cggaacgcug augucaucc ggucgggaga cgcggggaca agcggggagc auugcucucc 2160
74 ccgagaccca uuucgaccuu gaaggggucc ucgggggggc cggugcucug ccuaggggc 2220
75 cagcugcuug ggcucuucc agcagcugug ugcucucggg gcguggccaa auccaucgaa 2280
76 uucauccccg uugagacacu cgacguuguu acaaggucuc ccacuuucag ugacaacagc 2340
77 acgccaccgg cugugcccca gaccuauag gucggguacu ugcaugcucc aacuggcagu 2400
78 ggaaagagca ccaaggucc ugucgcguau gccgcccagg gguacaaagu acuagugcuu 2460
79 aaccucccgg uagcugccac ccugggguuu ggggcguaac uauccaaggc acauggcauc 2520
80 aaucccaaca uuaggacugg agucaggacc gugaugaccg gggaggccau cacguacucc 2580
81 acauauggca aauuucucgc cgaugggggc ugcgcuagcg gcgccuaga caucaucaua 2640
82 ugcgauaau gccacgcugu ggaugcuacc uccaauucug gcaucggaac gguccuugau 2700
83 caagcagaga cagccggggu cagacuaacu gugcuggcua cggccacacc ccccgguuca 2760
84 gugacaaccc cccaucccg uauagaagag guaggccucg ggcgggaggg ugagaucucc 2820
85 uucuauggga gggcgauucc ccuauccugc aucaaggag ggagacaccu gauuuucugc 2880
86 cacucaaaaga aaaaguguga cgagcucgcg gcggcccuuc ggggcauggg cuugaaugcc 2940
87 guggcauacu auagaggguu ggacgucucc auauuaccag cucagggaga uguggugguc 3000
88 gucgccaccg acgcccucac gacggguuac acuggagacu uugacuccgu gaucgacugc 3060
89 aaugagcgcg ucaccaagc ugucgacuuc agccuggacc ccaccuucac uauaaccaca 3120
90 cagacugucc cacaagacgc ugucucacgc agucagcgcc gcgggcgac agguagagga 3180
91 agacagggca cuuauaggua uguuuccacu ggugaacgag ccucaggaau guuugacagu 3240
92 guagugcuuu gugagucua cgacgcagg gcuugcuggu acgaucucac accagcgag 3300
93 accaccguca ggcuuagagc guauuucaac acgcccggcc uaccgugug ucaagaccu 3360
94 cuugaauuuu gggaggcagu uuucaccggc cucacacaca uagacgcca cuuccucucc 3420
95 caaacaagc aagcggggga gaacuucgcg uaccuaguag ccuaccaagc uacggugugc 3480
96 gccagagcca agggccucc cccguccug gacgccaugu ggaagugccu ggcccgacuc 3540
97 aagccuacgc uugcgggccc cacaccucuc cuguaccguu ugggcccua uaccaaugag 3600
98 gucaccuca cacaccugg gacgaaguac aucgccacu gcaugcaagc ugaccuugag 3660
99 gucaugacca gcacguggu ccuagcugga ggaguccug cagccgucgc cgcauauugc 3720
100 cuggcgacug gaugcguuuc caucaucggc cgcuugcacg ucaaccagcg agucgucguu 3780
101 gcgcccgaaua aggagguccu guaugaggcu uuugaugaga uggaggaaug cgccucuaagg 3840
102 gcggcucuca ucgaagagg gacgcggaau gccgagaugu ugaaguccaa gauccaaggc 3900
103 uugcugcagc agggccucua gcaggcccag gacauacaac ccgcuaugca ggcuucaugg 3960
104 cccaaagugg aacaauuuug ggccagacac auguggaacu ucauuagcgg cauccaauac 4020
105 cucgcaggau ugucaacacu gccagggaac cccgcgguug cuuccaugau ggcauucagu 4080

```

## RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/558,155

TIME: 11:30:32

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

```

106 gccgcccucca ccaguccguu gucgaccagu accaccaucc uucucaacau caugggaggc 4140
107 ugguuagcgu cccagaucgc accaccgcg ggggccaccg gcuuugucgu caguggccug 4200
108 gugggggucg ccgugggcag cauaggccug gguaaggugc ugguggacau ccuggcagga 4260
109 uauggugcgg gcauuucggg gggccucguc gcauucaga ucaugucugg cgagaagccc 4320
110 ucuauggaag augucauca ucuacugccu gggauccugu cuccgggagc ccugguggug 4380
111 ggggucaucu gcgcggccau ucugcgccgc cagugggagc cgggggaggg cgcgguccaa 4440
112 uggaugaaca ggcuuauugc cuuugcuucc agaggaaacc acgucgcccc uacucacuac 4500
113 gugacggagu cggauugcgc gcagcgugug acccaacuac uuggcucucu uacuuaaacc 4560
114 agccuacuca gaagacucca caauuggaau acugaggacu gccccauccc augcuccgga 4620
115 uccuggcucc gcgacgugug ggacuggguu ugcaccaucu ugacagacu caaaaauugg 4680
116 cugaccucua aauguuucc caagcugccc gggccucccu ucaucucuug ucaaaagggg 4740
117 uacaagggug ugugggcccg cacuggcauc augaccacgc gcugcccuug cggcgccaac 4800
118 aucucuggca auguccgccu gggcucuaug aggaucacag ggcuaaaac cugcaugaac 4860
119 accuggcagg ggaccuuucc uaucaauugc uacacggagg gccagugcgc gccgaaaccc 4920
120 cccacgaacu acaagaccgc caucuggagg guggcgcccu cggaguacgc ggaggugacg 4980
121 cagcaugggu cguacuccua uguaacagga cugaccacug acaaucugaa aaauccuugc 5040
122 caacuaccuu cccagaguu uuucuccugg guggacggug ugcagaacca uagguuugca 5100
123 cccacaccaa agcguuuuu ccgggaugag gucucguucu gcguugggcu uaauuccau 5160
124 gcugucgggu cccagcuucc cugugaaccu gagcccagc cagacguauu gagguccaug 5220
125 cuaacagauc cggccacau cacggcgagg acugcgcgcc ggcgcuuggc acggggauca 5280
126 ccuccaucug aggcgagcuc cucagugagc cagcuauac caccgucgc gcggggccacc 5340
127 ugcaccaccc acagcaacac cuaugacgug gacauugguc augccaaccu gcucauggag 5400
128 ggcggugugg cucagacaga gccugagucc agggugcccg uucuggacuu ucucgagcca 5460
129 augggcgagg aagagagcga ccuugagccc ucaauaccu cggagugcau gcucccccagg 5520
130 agcggguuuc cacgggccc uaccggcuug gcacggccug acuacaaccc gccgcucgug 5580
131 gaaucgugga ggaggccaga uuaccaaccg cccaccguug cugguugugc ucucuccccc 5640
132 cccaagaagg ccccgacgcc uccccaaagg agacgccgga cagugggucu gagcgagagc 5700
133 accauaucag aagcccucca gcaacuggcc aucaagaccu ugggccagcc cccucgagc 5760
134 ggugaugcag gcucguccac gggggcgggc gccgcgaau cggcggucc gacgucuccu 5820
135 ggugagccgg ccccccucaga gacagguucc gccuccucua ugcccccccu cgagggggag 5880
136 ccuggagauc cggaccugga gucugaucag guagagcuuc aaccuccccc ccaggggggg 5940
137 gggguagcuc ccgguuccgg cucggggucu uggucuacu gcuccgagga ggacgauacc 6000
138 accgugugcu gcuccaugc auacuccug accggggcuc uaauaacucc cuguagcccc 6060
139 gaagaggaaa aguugccaa caaccuuug aguaacucgc uguugcgau ccauaacaag 6120
140 guguacugua caacaucaa gagcgccuca cagagggcua aaaagguaac uuugacagg 6180
141 acgcaagugc ugcagcccc uuaugacuca gucuuaaagg acaucaagcu agcgguucc 6240
142 aaggucagcg caaggcuccu caccuuggag gaggcgugcc aguugacucc accccauucu 6300
143 gcaagaacca aguauggauu cggggccaag gaggucgca gcuuugccg gaggggcgau 6360
144 aaccacauca aguccgugug gaaggaccuc cuggaagacc cacaacacc aaaucccaca 6420
145 accaucaugg ccaaaaauga gguguucugc guggacccc ccaagggggg uaagaaacca 6480
146 gcucgccuca ucguuuacc ugaccucggc guccgggucu gcgagaaaau ggcccucua 6540
147 gacauuacac aaaagcuucc ucaggcggu augggagcuu ccuauggcuu ccaguacucc 6600
148 ccugcccaac ggguggagua ucucuugaaa gcaugggcg aaaagaagga cccaugggu 6660
149 uuucguaug auaccgaug cuucgacuca accgucacug agagagacu caggaccgag 6720
150 gaguccauau accaggccug cucccugccc gaggaggccc gcacugccau acacucgcug 6780
151 acugagagac uuucguagg agggcccaug uucaacagca agggucaaa cugcgguuac 6840
152 agacguugcc gcgccagcgg ggugcuaacc acuagcaug guaacaccau ccaugcuau 6900
153 gugaaagccc uagcgccug caaggcugcg gggauaguug cggccacaau gcugguau 6960
154 ggcgaugacc uaguaguc cuucagaaagc caggggacug aggaggacga gcggaaccug 7020

```

## RAW SEQUENCE LISTING

DATE: 03/15/2007

PATENT APPLICATION: US/10/558,155

TIME: 11:30:32

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

```

155 agagccuuc cggaggccau gaccagguac ucugccccuc cuggugaucc cccagaccg 7080
156 gaauaugacc uggagcuau acauccugu uccucaaau ugucugugc guugggccg 7140
157 cggggccgcc gcagauacua ccugaccaga gacccaacca cuccacugc ccgggcugcc 7200
158 uggaagacag uuagacacuc cccuaucaau ucauggcugg gaaacaucau ccaguaugcu 7260
159 ccaaccauau gguuucgcau gguccuauug acacacuuc ucuccauuc caugguccaa 7320
160 gacaccucgg accagaaccu caacuugag auguaggau caguauacuc cgugaaucuu 7380
161 uggaccuuc cagccauau ugagagguu caggggcuug acgcuuuuc uaugcacaca 7440
162 uacucucacc acgaacugac gcggguggc ucagcccuca gaaaacuug ggcgccacc 7500
163 cucaggguu ggaagaguc ggcucgcgc gucagggcg cccuacuc cgguggagg 7560
164 aaagcggccg uuugcggccg auaucucuc aaauuggcg ugaagacaa gcucaaacuc 7620
165 acuccauugc cggaggcgcg ccuacuggac uuauccagu gguucaccg cggcgccggc 7680
166 gggggcgaca uuuuucacag cgugucgcgc gcccagacc gcucuuuac cuucggccua 7740
167 cuccuacuu ucguagggu aggcucucuc cuacucucc cucgguagag cggcacacac 7800
168 uagguacacu ccuagcuau cuguuccuu uuuuuuuuu uuuuuuuuu uuuuuuuuu 7860
169 uuuuuuuuu cuuuuuuuu uuuuuccuc uuucuuucc ucucacuuu uucuaucuu 7920
170 uuucuuugg gcuccaucu agcccuagc acggcuagc gugaaaggc cgugagccg 7980
171 augacugcag agagugcgcu aacuggucuc ucugcagauc augu 8024
174 <210> SEQ ID NO: 2
175 <211> LENGTH: 8024
176 <212> TYPE: RNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: replicon
182 <400> SEQUENCE: 2
183 acccgcccc aauagggcg acacuccgc augaaucau cccugugag gaacuacug 60
184 cuucacgcag aaagcgucua gccauggcg uaguaugau gucguacag cuccaggccc 120
185 ccccccuccg ggagagccau aguggucugc ggaaccggg aguacaccg aaugccggg 180
186 aagacugggu ccuucuuug auaaaccac ucaugcccg gccauuugg cgugccccg 240
187 caagacugcu agccgaguag cguuggguug cgaaaggccu ugugguacug ccugauagg 300
188 ugcuugcgag ugccccggga ggucucguag accgugcacc augagcaca aucccaaacc 360
189 ucaaagaaaa accaaaagaa acacuaacc ucgcccuaug auugaacaag auggauugca 420
190 cgcagguucu cggccgcuu ggguggagag gcuaucggc uaugacuggg cacaacagac 480
191 aaucggcugc ucugaugcc cggugucgc gcugucagc cagggcgcc cgguucuuu 540
192 ugucaagacc gaccugucc guggccuga ugaacugc gacgaggcag cgcggcuac 600
193 guggcuggcc acgacggcg uuccuugcg agcugugc gacguugca cugaagcgg 660
194 aagggacug cugcuauug gcgaagugc gggcgaggau cuccugucau cucaccuug 720
195 uccugccgag aaaguaacca ucauggcuga ugcaaugcg cggcugcau cguugauc 780
196 ggcuaaccug ccuucgacc accaagcga acaucgauc gagcgagc guacucggau 840
197 ggaagccggu cuugcgau aggaugau ggacgaag caucagggc ucgcgccag 900
198 cgaacuguu gccagguca aggcgcgcau gcccagcgg gaggaucuc ucgugacca 960
199 uggcgaugc ugcugccga auaucaugu ggaauaggc cgcuuucug gauucaucga 1020
200 cugugcccg cugggugug cggaccgcu ucaggacau gcguuggcu cccgugauu 1080
201 ugcugaagag cuugcgcg aaugggcga ccgcuuccu gugcuuac guaucgccg 1140
202 ucccgaucg cagcgcauc ccuucuauc ccuucugac gaguucuuu gaguuuaac 1200
203 ccucuccuc ccccccccu aacguuacg gccgaagcg cuuggaaua ggccggugug 1260
204 cguuugucua uauguuuuu uccaccau ugccgucuu uggaauug agggcccga 1320
205 aaccugccc ugucuuuc acgagcau cuagggguc uucccucuc gccaaaggaa 1380
206 ugcaaggucu guugaugc gugaaggag caguuccuc ggaagcuu ugaagacaa 1440
207 caacgucug agcgaccuu ugcaggcag ggaaccccc accuggcgac agguccuc 1500

```

Same error

See item #11 on error summary sheet.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/558,155

DATE: 03/15/2007

TIME: 11:30:32

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw

```

208 gcggccaaaa gccacgugua uaagauacac cugcaaaggc ggcacaaccc cagugccacg 1560
209 uugugaguug gauaguugug gaaagaguca aauggcucuc cucaagcgua uucaacaagg 1620
210 ggcugaagga ugcccagaag guaccccauu guaugggauc ugaucugggg ccucggugca 1680
211 caugcuuuac auguguuuag ucgagguuaa aaaaacgucu agggcccccg aaccacgggg 1740
212 acgugguuuu ccuuugaaaa acacgauaau accaugggcc ccaucaccgc uuacgcccag 1800
213 cagacacgag gucucuuggg cucuauagug gugagcauga cggggcguga caagacagaa 1860
214 caggccgggg agguccaagu ccuguccaca gucacucagu ccuuccucgg aacauccauu 1920
215 ucgggggucu uauggacugu uuaccacgga gcuggcaaca agacacuagc cggcucgcgg 1980
216 ggcccgguca cgcagaugua cucgagcgcc gagggggacu uggucgggug gccagcccu 2040
217 ccugggacca aaucuuugga gccguguacg uguggagcgg ucgaccugua uuuggucacg 2100
218 cggaacgcug augucauccc ggcucgaaga cgcggggaca agcggggagc gcugcucucc 2160
219 ccgagacccc uuucgaccuu gaaggggucc ucggggggac cugugcuuug ccuagggggc 2220
220 cacgcugucg gaauucuccg ggcagcugug ugcucucggg guguggcuua guccauagau 2280
221 uucauccccg uugagacgcu cgacaucguc acgcggucc ucaccuuuag ugacaacagc 2340
222 acaccaccag cugugcccca gaccuauacg guggggguacu ugcacgcccc cacuggcagu 2400
223 ggaaaaagca ccaaggucgc cgucgcguac gccgcccagg gguauaaagu gcuggugcuc 2460
224 aaucccucgg uggcugccac ccugggauuu ggggcguacu uguccaaggc acauggcauc 2520
225 aacccaaca uaaggacugg agucagaacu gugacgacc gggagcccau uacauacucc 2580
226 acguauggua aauccucgc cgaugggggc ugcgcaggcg gcgccuanga caucaucaua 2640
227 ugcaugaau gccacucugu ggaugcuacc acuaucucg gcaucgggac aguccuugac 2700
228 caagcagaga cagccggggu caggcuacu guacuggcca cggccacgcc ccccgguugc 2760
229 gugacaaccc ccuauccaa uauagaggag guagcccucg gacaggaggg ugagaucccc 2820
230 uucauuggga gggcguuucc ccugucuua aucaaggag ggaggcacuu gauuuucugc 2880
231 cacucaaaaga aaaaguguga cgagcucgca acggcccuuc ggggcauggg cuugaacgcu 2940
232 guggcauuu acagaggguu ggacgucucc auauuaccaa cucaaggaga uguggugguc 3000
233 guugccaccg acgcccucau gacggggau acuggagacu uugacuccgu gaucgacugc 3060
234 aacguagcgg ucacccaggc cguagacuuc agccuggacc ccaccuucac uauaaccaca 3120
235 cagacugucc cgcaagacgc ugucucacgu agucagcgcc gaggggcgac gggugagga 3180
236 agacugggca uuauuaggua uguuuccacu ggugagcgag ccucaggaa guuugacagu 3240
237 guaguacucu gugagugcua cgacgcagga gcugcuuggu augagcucuc accaguggag 3300
238 acgaccguca ggcucagggc guuuuucac acgccuggcu ugccugugug ccaggaccac 3360
239 cuugaguuuu gggaggcagu uuucaccggc cucacacaca uagacgcuca uuuccuuucc 3420
240 cagacaaagc agucggggga aaauuucgca uacuauagu ccuaucaggc cacagugugc 3480
241 gccagggcca aagcgcccc cccgucugg gacgucaugu ggaagugcuu gacucgacuc 3540
242 aagcccacgc uuuggggcc uacaccucuc cuguaccguu ugggcucugu uaccaacgag 3600
243 gacaccuua cacacccggu gacaaaauac aucgccacau gcaugcaagc ugaccucgag 3660
244 gucaugacca gcacgugggu ccuggcuggg ggagucuuag cagccgucgc cgcguauugc 3720
245 uuagcgaccg gguguguuuc caucauuggc cguuuacaca ucaaccagcg agcugucguc 3780
246 gcuccggaca aggagguccu cuauaggcu uuugaugaga uggaggaaug ugccuccaga 3840
247 gcggcucucc uugaagaggg gcagcggaua gccgagaugc ugaaguccaa gaucacaggc 3900
248 uuauugcagc aagccucuaa acaggcccag gacauacaac ccgcugugca agcuucgugg 3960
249 cccaagaugg agcaauucug ggccaaacau auguggaacu ucauaagcgg cauucaguac 4020
250 cucgcaggac ugucaacacu gccagggaac ccugcugugg cuuccaugau ggcauucagc 4080
251 gccgcccua ccaguccguu gucaacuagc accaccaucc uucuuacau ucuggggggc 4140
252 uggcuggcgu cccaaauugc gccaccgcg ggggccacug gcuuuguugu caguggccug 4200
253 gugggagcug cuguuggcag cauaggcuug gguaaagugc ugguggacau ccuggcaggg 4260
254 uauggugcgg gcauuucggg ggcccucguc gcguuaaga ucaugucugg cgagaagccc 4320
255 uccauggagg augucauca cuugcugccu ggaauucugu cuccaggugc ucugguggug 4380
256 ggagucaucu gcgcggccau ucugcgccgc caugugggac cgggggaagg cgcgguccaa 4440

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/558,155

DATE: 03/15/2007

TIME: 11:30:33

Input Set : A:\2007-01-03 1254-0299PUS1.txt

Output Set: N:\CRF4\03152007\J558155.raw